

INFOTEC INC.



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Programming Systems Group

March 16, 1967

Mr. T. Nelson, Systems Consultant
Box 1546
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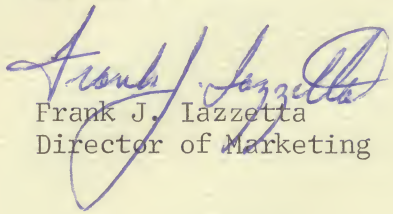
Dear Mr. Nelson:

Thank-you for your interest in Infotec's DPI-1. Our engineering staff has developed the DPI-1 in order to provide a low cost, efficient linkage between a remote I/O terminal, and the central business location. I am pleased to send you our preliminary brochure so that you may be able to make an initial evaluation on this product.

Within the next few weeks, I will be in a position to send you additional information on the DPI-1. In the interim, I will make myself available to any questions which you may have. Please feel free to call me. Again, let me thank you for your inquiry.

Very truly yours,

INFOTEC, INC.


Frank J. Iazzetta
Director of Marketing

FJI/bs
enclosure

INFOTEC INC.



Introduces...



DPI-1

Data Phone Interface
Digital Communication
Linkage

(For Various Modems)

Infotec supplies complete digital communications systems as well as the sub system elements that comprise these systems. The DPI-1 series of Data-phone* interfaces convert character or word outputs of a computer I/O device to a format suitable for the Bell System family of dataphones as well as other communications modems. Additionally, the DPI-2 series provides for the interfacing and control of the communications modem at the central site.

Use of integrated circuits and discrete components assures maximum reliability. Compatibility with different computer formats and levels is designed into the DPI interface units.

Modular packaging results in flexible and easily implemented digital communications systems.

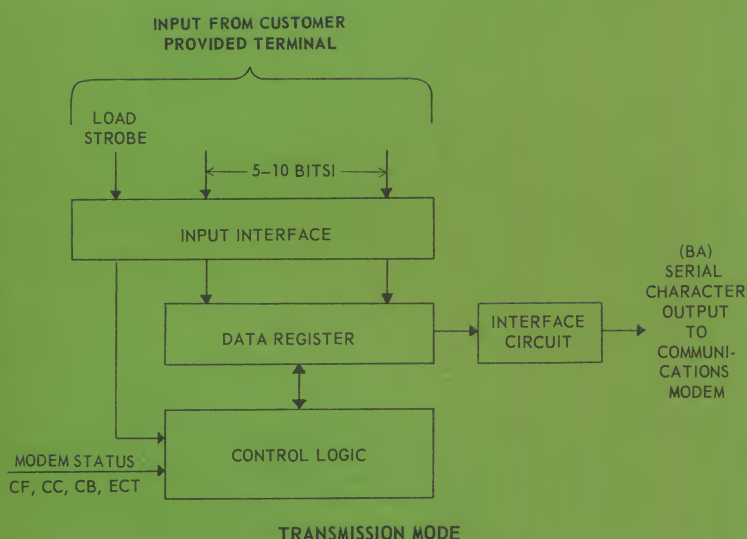
DPI DATA-PHONE INTERFACES AND CONTROLLERS

The DPI-1 is available in a rack mount or in a package which allows the unit to be placed under a Bell System Data-phone* of the 103 or 202 series.

The DPI-1 is designed for simplex or half-duplex service. A single DPI channel is capable of half-duplex operation. Two DPI modules at a terminal will allow operation on full-duplex channels. The unit is delivered with an interface configuration for operation with EIA RS-232B voltage interface modems and user provided terminals.

The Infotec DPI series modules are designed to operate with modern data communications systems. The modules will transmit and receive data over a number of modems.

The DPI-1 will operate from 45 baud (60 speed teletype) to 4800 baud. The 4800 baud upper limit is determined by the maximum baud rates of commercial modems. The DPI circuits allow operation up to 100,000



*Data-phone is a registered trade mark of American Telephone and Telegraph Company.

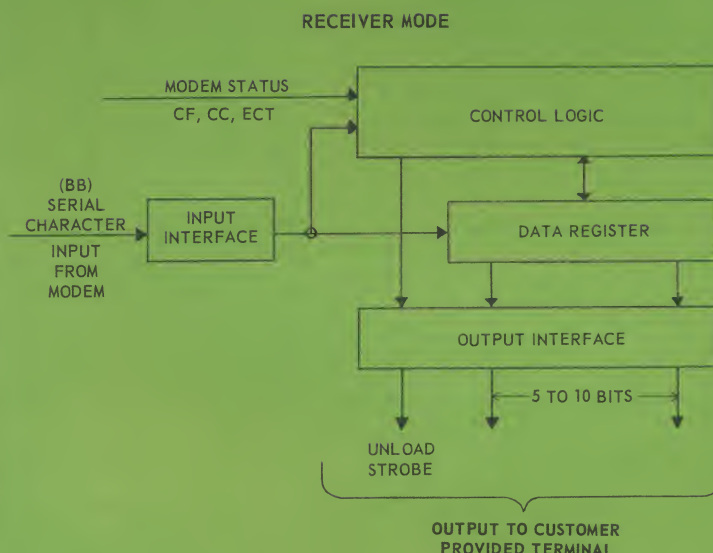
baud, although these rates are not practical except for a short inplant loop. The baud rate must be specified when ordering. The unit is delivered set to the specified frequency, with a user adjustment of 10% possible.

The DPI-1 presents a parallel character interface to the user. The characters transferred to the DPI-1 for transmission, or transferred to the user on reception may be of any coding. The DPI-1 converts the characters to a serial pattern, and adds a start bit. The codes may be of a 5 level Baudot, 7 level IBM BCD, 8 level ASC II or IBM EBC DIC. Options allow the user to have parity generation, or parity detection.

The DPI-1 internal clock generator (near Block Diag. A) controls the baud rate. The user's external equipment determines the character rate. The user's equipment must account for the start bit, and at least one stop bit that are added to the character for transmission. An option will allow the user to receive a ready-busy signal from the DPI-1. With this option, the control line presents a busy signal to the user for the duration of the character transmission (including the start-stop bit). At the end of transmission the control line is returned to the ready level indicating that a new character may be loaded.

The DPI-1 has been designed to operate with modems conforming to E1A RS-232B. In addition the user may specify the sense and level interface in detail. The interface circuit designed for the DPI allows a maximum of flexibility in determining signal sense and levels. For special systems and certain modems, the DPI-1 may be obtained with line relays to operate 60 ma DC teleprinter loops.

The DPI-2 is designed to operate as the central unit, and is normally provided as a rack mount. The DPI-2 is engineered by Infotec to operate with the user's computer system. A standard line of modules are available to implement systems compatible with all major computers.



SPECIFICATIONS

ELECTRICAL

Circuits; Discrete components and integrated circuit logic

Input; Any input between +10.0V and -10.0V specify levels

Threshold level Input; Factory Set

Rise Time in; 1 micro sec.

Input Impedance; Greater than 10K

Output; Any output between +10.0V and -10.0V specify levels

Modem Interface; Electronic Industries Assoc. Std. RS-232B

Power; +8 to +18VDC at 0.5 amp. max.
-8 to -18VDC at 0.5 amp. max.
An internal power supply is available for use with a 115U AC line at additional cost.

Data Rate; Standard Transmission
Rates 45 and 4800 Baud
For closed circuit use up to 100,000 Baud

Character Size; Customer set
between 5 to 10 Bits

Parity; Parity generation and check optional at additional cost.

MECHANICAL

Dimensions; 10" x 14" x 2"
Serves as base for Data Set
Rack mounting available

Connectors; No wiring necessary
Input; AMP Series M-So PIN A mating connector is provided with the unit
Output; CINCH DB-19604-432 with hood provided for connection to modem meeting RS-232B

The DPI Interfaces are designed for use with Bell System's Data-phones and all other popular communications modems.

INFOTEC INC.



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